

Contents of Volume 216, 1981

No. 1 issued on March 27, 1981

J. Blok, A.A. Mulder-Stapel, L.A. Ginsel, W.Th. Daems: Endocytosis in Absorptive Cells of Cultured Human Small-Intestinal Tissue: Horseradish Peroxidase, Lactoperoxidase, and Ferritin as Markers	1
B. Ahrén, L.E. Ericson, I. Lundquist, I. Lorén, F. Sundler: Adrenergic Innervation of Pancreatic Islets and Modulation of Insulin Secretion by the Sympatho-Adrenal System	15
Y. Ibata, N. Tani, H.L. Obata, M. Tanaka, S. Kubo, K. Fukui, M. Fujimoto, H. Kinoshita, K. Watanabe, Y. Sano, E. Hashimura, S. Sin, K. Imagawa: Correlative Ontogenetic Development of Catecholamine- and LHRH-containing Nerve Endings in the Median Eminence of the Rat	31
T. Yashiro, H. Nogami, F. Yoshimura: Immunohistochemical Study of the Postnatal Development of Pituitary Thyrotrophs in the Rat, with Special Reference to Cluster Formation	39
C.H. Rhodes, J.I. Morrell, D.W. Pfaff: Changes in Oxytocin Content in the Magnocellular Neurons of the Rat Hypothalamus Following Water Deprivation or Estrogen Treatment. Quantitative Immunohistological Studies	47
P. Bräunig, R. Hustert, H.J. Pflüger: Distribution und Specific Central Projections of Mechanoreceptors in the Thorax and Proximal Leg Joints of Locusts. I. Morphology, Location and Innervation of Internal Proprioceptors of Pro- and Metathorax and Their Central Projections	57
H.J. Pflüger, P. Bräunig, R. Hustert: Distribution and Specific Central Projections of Mechanoreceptors in the Thorax and Proximal Leg Joints of Locusts. II. The External Mechanoreceptors: Hair Plates and Tactile Hairs	79
R. Hustert, J.H. Pflüger, P. Bräunig: Distribution and Specific Central Projections of Mechanoreceptors in the Thorax and Proximal Leg Joints of Locusts. III. The External Mechanoreceptors: The Campaniform Sensilla	97
H.-W. Korf, R. Liesner, H. Meissl, A. Kirk: Pineal Complex of the Clawed Toad, <i>Xenopus laevis</i> Daud.: Structure and Function	113
Y. Okada, I. Nakanishi, K. Kajikawa: Secretory Granules of B-cells in the Synovial Membrane. An Ultrastructural and Cytochemical Study	131
F. Dacheux: Ultrastructural Localization of Gonadotropin-Releasing Hormone in the Porcine Gonadotropic Cells	143
S.O.E. Ebbesson: Projections of the Optic Tectum and the Mesencephalic Nucleus of the Trigeminal Nerve in the Tegu Lizard (<i>Tupinambis nigropunctatus</i>)	151
S.O.E. Ebbesson, D.L. Meyer, H. Scheich: Connections of the Olfactory Bulb in the Piranha (<i>Serrasalmus nattereri</i>)	167
V. Steinberg, V. Rowe, I. Watanabe, J. Parr: Effects of Norepinephrine and Dibutyryl Adenosine 3', 5'-cyclic Monophosphate on the Ultrastructure of Pineal Cells in Monolayer Culture	181
J. Noaillac-Depeyre, E. Hollande: Evidence for Somatostatin, Gastrin and Pancreatic Polypeptide-like Substances in the Mucosa Cells of the Gut in Fishes with and without Stomach	193
R. Odselius, R. Elofsson: The Basement Membrane of the Insect and Crustacean Compound Eye: Definition, Fine Structure, and Comparative Morphology	205
Short Communications	
I.J. Singh, R.M. Klein, M. Herskovits: Autoradiographic Assessment of ³ H-Proline Uptake by Osteoblasts Following Guanethidine-Induced Sympathectomy in the Rat	215
G. Storme, G. Willems: The Effect of a Liquid Elemental Diet on Cell Proliferation in the Colon of Rats	221
M.A. Tavares, M.M. Paula-Barbosa: Cerebellar Intranuclear Inclusions in Chronically Alcoholized Rats	227

No. 2 issued on April 18, 1981

B.A. Wittenberg, T.F. Robinson: Oxygen Requirements, Morphology, Cell Coat and Membrane Permeability of Calcium-Tolerant Myocytes from Hearts of Adult Rats	231
P. Pévet, P.A. Racey: The Pineal Gland of Nocturnal Mammals. II. The Ultrastructure of the Pineal Gland in the Pipistrelle Bat (<i>Pipistrellus pipistrellus L.</i>): Presence of Two Populations of Pinealocytes	253
L.P.C. Schot, H.H. Boer, D.F. Swaab, S. Van Noorden: Immunocytochemical Demonstration of Peptidergic Neurons in the Central Nervous System of the Pond Snail <i>Lymnaea stagnalis</i> with Antisera Raised to Biologically Active Peptides of Vertebrates	273
S.A. Torrence, R.A. Cloney: Rhythmic Contractions of the Ampullar Epidermis During Metamorphosis of the Ascidian <i>Molgula occidentalis</i>	293
S.O.E. Ebbesson, K.C. Hodde: Ascending Spinal Systems in the Nurse Shark, <i>Ginglymostoma cirratum</i>	313
C.C. Meinecke: The Fine Structure of the Compound Eye of the African Armyworm Moth, <i>Spodoptera exempta</i> Walk. (Lepidoptera, Noctuidae)	333
D.C. Rogers, D.G. Smith, G.C. Campbell, J. Chamley-Campbell: Immunofluorescent and Structural Features of Cells in the Intervascular Stroma of the Amphibian Carotid Labyrinth	349
G. Hoffmann-Fezer, U. Löhrs, H.V. Rodt, S. Thierfelder: Immunohistochemical Identification of T- and B-Lymphocytes Delineated by the Unlabelled Antibody Enzyme Method. III. Topographical and Quantitative Distribution of T- and B-Cells in Human Palatine Tonsils	361
M.S. Nowell, P.M.J. Shelton: A Golgi-Electron-Microscopical Study of the Structure and Development of the Lamina ganglionaris of the Locust Optic Lobe	377
R.H. White, N.A. Michaud: Disruption of Insect Photoreceptor Membrane by Divalent Ions: Dissimilar Sensitivity of Light- and Dark-Adapted Mosquito Rhabdomeres	403
A.M.J. Buchan, J.M. Polak, M.G. Bryant, S.R. Bloom, A.G.E. Pearse: Vasoactive Intestinal Polypeptide (VIP)-like Immunoreactivity in Anuran Intestine	413
R. Daigeler: Sex-Dependent Changes in the Rat Kidney after Hypophysectomy	423

Short Communications

M. Whitear, E.B. Lane: Bar Synapses in the End Buds of Lamprey Skin	445
F. Romer, W. Gnatzy: Arachnid Oenocytes: Ecdysone Synthesis in the Legs of Harvestmen (Opilionidae)	449
<i>Erratum: J. Fontaine-Pérez, C. Le Lièvre, M.P. Dubois: Do Neural Crest Cells in the Pancreas Differentiate into Somatostatin-containing Cells?</i> Cell Tissue Res. 213:293-299 (1980)	454

No. 3 issued on April 24, 1981

E. Brodin, J. Alumets, R. Häkanson, S. Leander, F. Sundler: Immunoreactive Substance P in the Chicken Gut: Distribution, Development and Possible Functional Significance	455
L. Bjersing, S. Cajander, J.-E. Damber, P.O. Janson, B. Källfelt: The Isolated Perfused Rabbit Ovary - A Model for Studies of Ovarian Function. Ultrastructure after Perfusion with Different Media	471
K. Wasano, T. Yamamoto: A Scanning and Transmission Electron-Microscopic Study on Neuro-Epithelial Bodies in the Neonatal Mouse Lung	481

E.P. Meyer, T. Labhart: Pore Canals in the Cornea of a Functionally Specialized Area of the Honey Bee's Compound Eye	491
M.J. Freund-Mercier, M.E. Stoeckel, F. Moos, A. Porte, Ph. Richard: Ultrastructural Study of Electrophysiologically Identified Neurones in the Paraventricular Nucleus of the Rat	503
R.F. Stocker, M. Schorderet: Cobalt Filling of Sensory Projections from Internal and External Mouthparts in <i>Drosophila</i>	513
F. Yokohari: The Sensillum Capitulum, an Antennal Hygro- and Thermoreceptive Sensillum of the Cockroach, <i>Periplaneta americana</i>	525
T. Matsuura, H.J. Herwig: Histochemical and Ultrastructural Study of the Nervous Elements in the Pineal Organ of the Eel, <i>Anguilla anguilla</i>	545
Y. Murabe, Y. Sano: Morphological Studies on Neuroglia. I. Electron Microscopic Identification of Silver-impregnated Glial Cells	557
Y. Murabe, Y. Ibata, Y. Sano: Morphological Studies on Neuroglia. II. Response of Glial Cells to Kainic Acid-induced Lesions	569
J. Daerr-Schatt, J.-C. Garaud: Ultrastructural Identification of Gastrin-like Immunoreactive Nerve Fibres in the Brain of <i>Xenopus laevis</i> by Means of Colloidal Gold or Ferritin Immunocytochemical Methods	581
K.S. Kuehl, S.P. Bruttig, D.V. Singer, R. Rubio, R.M. Berne: Growth of Aortic Vascular Smooth Muscle Cells in Lowered Oxygen Tension	591
J.A. Clarke, M. de Burgh Daly: Distribution of Carotid Body Type I Cells and Other Periadventitial Type I Cells in the Carotid Bifurcation Regions of the Rabbit	603
J.J. Peluso, J. Charlesworth, C. England-Charlesworth: Role of Estrogen and Androgen in Maintaining the Preovulatory Follicle	615
A. Pellegrino de Iraldi, J.P. Corazza: A Calcium-binding Site Modifiable by Electrical Stimulation in the Monoaminergic Vesicles of Rat Pineal Nerves	625
E. Holm Nielsen, P. Bytzer, J. Clausen, N. Chakravarty: Electron Microscopic Study of the Regeneration in vitro of Rat Peritoneal Mast Cells After Histamine Secretion	635
P. Bytzer, E. Holm Nielsen, J. Clausen: Surface Morphology of Rat Peritoneal Mast Cells During in vitro Regeneration After Histamine Secretion	647
Short Communications	
W.H. Fahrenbach: The Morphology of the Horseshoe Crab (<i>Limulus polyphemus</i>) Visual System. VII. Innervation of Photoreceptor Neurons by Neurosecretory Efferents	655
R.K. Lie, H.G. Jodalen, S. Rotevatn: Accumulation of Myocardial Lipid Droplets in Dexamethasone-treated Mice	661

Indexed in Current Contents

Author-Index of Volume 216, 1981

Ahrén, B. 15
 Alumets, J. 455
 Berne, R.M. 591
 Bjersing, L. 471
 Blok, J. 1
 Bloom, S.R. 413
 Boer, H.H. 273
 Bräunig, P. 57, 79, 97
 Brodin, E. 455
 Bruttig, S.P. 591
 Bryant, M.G. 413
 Buchan, A.M.J. 413
 Burgh Daly, M. de 603
 Bytzer, P. 635, 647
 Cajander, S. 471
 Campbell, G.C. 349
 Chakravarty, N. 635
 Chamley-Campbell, J. 349
 Charlesworth, J. 615
 Clarke, J.A. 603
 Clausen, J. 635, 647
 Cloney, A. 293
 Corazza, J.P. 625
 Dacheux, F. 143
 Daems, W.Th. 1
 Daigeler, R. 423
 Damber, J.-E. 471
 Doerr-Schott, J. 581
 Dubois, M.P. (Erratum) 454
 Ebbesson, S.O.E. 151, 167, 313
 Eloffson, R. 205
 England-Charlesworth, C. 615
 Ericson, L.E. 15
 Fahrenbach, W.H. 655
 Fontaine-Pérus, J. (Erratum) 454
 Freund-Mercier, M.J. 503
 Fujimoto, M. 31
 Fukui, K. 31
 Garraud, J.-C. 581
 Ginsel, L.A. 1
 Gnatzy, W. 449
 Häkanson, R. 455
 Hashimura, E. 31
 Herskovits, M. 215
 Herwig, H.J. 545
 Hodde, K.C. 313
 Hoffmann-Fezer, G. 361
 Hollande, E. 193
 Holm Nielsen, E. 635, 647
 Hustert, R. 57, 79, 97
 Ibata, Y. 31, 569
 Imagawa, K. 31
 Janson, P.O. 471
 Jodalen, H.G. 661
 Källfelt, B. 471
 Kajikawa, K. 131
 Kinoshita, H. 31
 Kirk, A. 113
 Klein, R.M. 215
 Korf, H.-W. 113
 Kubo, S. 31
 Kuehl, K.S. 591
 Labhart, T. 491
 Lane, E.B. 445
 Leander, S. 455
 Lie, R.K. 661
 Liesner, R. 113
 Lièvre Le, C. (Erratum) 454
 Löhrs, U. 361
 Lorén, I. 15
 Lundquist, I. 15
 Matsuura, T. 545
 Meinecke, C.C. 333
 Meissl, H. 113
 Meyer, D.L. 167
 Meyer, E.P. 491
 Michaud, N.A. 403
 Moos, F. 503
 Morrell, J.I. 47
 Mulder-Stapel, A.A. 1
 Murabe, Y. 557, 569
 Nakanishi, I. 131
 Noaillac-Depeyre, J. 193
 Nogami, H. 39
 Nowel, M.S. 377
 Obata, H.L. 31
 Odselius, R. 205
 Okada, Y. 131
 Parr, J. 181
 Paula-Barbosa, M.M. 227
 Pearse, A.G.E. 413
 Pellegrino de Iraldi, A. 625
 Peluso, J.J. 615
 Pévet, P. 253
 Pfaff, D.W. 47
 Pflüger, H.J. 57, 79, 97
 Polak, J.M. 413
 Porte, A. 503
 Racey, P.A. 253
 Rhodes, C.H. 47
 Richard, Ph. 503
 Robinson, T.F. 231
 Rodt, H.V. 361
 Rogers, D.C. 349
 Romer, F. 449
 Rotevatn, S. 661
 Rowe, V. 181
 Rubio, R. 591
 Sano, Y. 31, 557, 569
 Scheich, H. 167
 Schorderet, M. 513
 Schot, L.P.C. 273
 Shelton, P.M.J. 377
 Sin, S. 31
 Singer, D.V. 591
 Singh, I.J. 215
 Smith, D.G. 349
 Steinberg, V. 181
 Stocker, R.F. 513
 Stoeckel, M.E. 503
 Storme, G. 221
 Sundler, F. 15, 455
 Swaab, D.F. 273
 Tanaka, M. 31
 Tani, N. 31
 Tavares, M.A. 227
 Thierfelder, S. 361
 Torrence, S.A. 293
 Van Noorden, S. 273
 Wasano, K. 481
 Watanabe, K. 31, 181
 White, R.H. 403
 Whitear, M. 445
 Willems, G. 221
 Wittenberg, B.A. 231
 Yamamoto, T. 481
 Yashiro, T. 39
 Yokohari, F. 525
 Yoshimura, F. 39

